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FILE DISPLAY SYSTEM [Fairu no hyoji ho'shiki ]

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#### Specification

#### 1. Title of Invention

File display system

#### 2. Scope of Patent Claims

A system where the file in graduated layer form is displayed on the screen of a computer, this file consists of several upper position files displaying the large classification and several lower position files displaying the small classification, these are related to the above upper position files.

characterized in that file display system is This aforementioned displayed on the position files are several upper position file is selected from upper position files. Several of the lower position file that are related to upper position file are displayed in a row with aforementioned upper position file on the screen of the among several of the lower position file is selected lower position file of the position files. In addition, classification is displayed on the aforementioned screen. The files from all the graduated layer files are displayed in a row on aforementioned screen.

### Detailed explanation of the invention (Industrial field of use)

such as a menu in a graduated layer structure.

The invention pertains to a file display system in a computer. In particular, it pertains to the display system of a directory

#### (Prior Art)

The program and data that are stored in the memory of the computer are stored in certain classification in a graduated layer structure. During a call out in a screen, the call out is from the

<sup>1</sup> Numbers in the margin indicate pagination in the foreign text.

large classification file to the fine classification file in the graduated layer form. The file shown below is explained as a menu.

Figure 4 shows the display state of the conventional graphic display. 1 is the graphic display screen. 2 is the graphic display of the large classification menu - portion (A1, A2,...An). Ai is the menu selected among the large classification menu - 2.

shows the menu Αi selected from the Figure 5 classification menu - portion 2, the page is switched on the same intermediate classification menu portion the screen 1. Ai2... Ain are displayed. In addition, a desired menu is selected from the intermediate classification menu - portion Aii, Ai2, portion of Ai2 be the intermediate Ain. For example, is displayed by switching the pages in displayed. A menu graduated layer.

/2

The conventional menu display method is a display of only one screen, the large classification or the intermediate classification menu - display portion 2, Ai. Therefore, when the intermediate menu - Ai is selected from the large classification menu - 2 of screen 1 of figure 4, the intermediate classification menu - Ai of screen 1 in figure 5 is changed entirely.

That is, due to this menu selection, the menu - portion displayed on the screen is changed entirely for the whole menu.

(The problems resolved by the invention)

In the opening of the conventional menu, since the pages are switched for every menu graduated layers, the menu that is displayed on the screen at a particular time is only one graduated layer menu, the graduated menu that is before and after it are not diaplayed, there is the problem of the relationship for before and after that menu during operation.

The purpose of the invention is to resolve the above problems

and offer a file display system that is efficient in the menu operation on the graphic display screen and the before and after relationship of the menu - graduated layer are clear in the menu opening.

(Means for resolving the problems)

In the invention, a system where the file in graduated layer form is displayed on the screen 1 of a computer, this file consists upper position files **A1** -An displaying the lower position files A11 classification and several displaying the small classification, these are related to the above This file display system A1 An. position files position files A1 An characterized in that several upper are One upper position file aforementioned screen 1. displayed on the is selected from several upper position files A1 - An. of the lower position files All - Aln that are related to one upper position file A1 are displayed in with the aforementioned upper position files A1 - An on the screen 1 of computer. One lower position file All is selected among several the lower position files All - Aln. In addition, the lower position file A111 - A11n of the fine classification is displayed aforementioned screen 1. The file from all the graduated layer file is displayed in a row on the aforementioned screen 1.

(Action)

The file graduated layers are displayed simultaneously on the screen 1 according to a selection from the upper position files A1 - An to the lower position files A111 - A11n. The before and after relationship of the graduated layer files can be viewed together so the file selection and modification operation can be advanced smoothly.

(Implementation example)

One implementation of the invention is explained below by

referring to the diagrams.

Now, figure 2 shows the menu structure of the graduated layer file, this graphic display is shown in the computer. In figure 2, A1, A2.. An is the large classification menu of the upper position A11, A12... A1n, An1 ...are the intermediate menu of A112... A11n are the small A111, lower position file. classification menu of the lower position file. That is, intermediate classification menu - All, Al2, ..Aln are contained in the large classification menu - A1. Also, the one of classification menu - A111, A112...A11n are contained in the intermediate menu - All.

In figure 1, 1 is the screen for the graphic display.

- 5 is the display part of the large classification menu A1, A2,.. An of the graduated menu layer of figure 2.
- 6 is the display part of the intermediate classification menu A11, A12,.. A1n of the graduated menu layer of figure 2. In this case, the large classification menu A1 of the display part 5 is selected.
- 7 is the display part of the small classification menu All1, All2,.. Alln of the graduated menu layer of figure 2. In this case, the intermediate menu All of the display part 6 is selected.

the operation of the graphic this implementation example, display screen 1 of figure 1 is carried out. First, the large classification menu - A1, A2,... An of figure 2 is displayed in the small classification menu Continuously, the display part 5. A111, A112...A11n and the intermediate menu - A11, A12.. A1n opened from the menu selection. Then, the display is at the display That is, the menu screen is section off in each parts 6 and 7. graduated menu layer, the whole selected graduated layer the intermediate displayed. Here, the large classification, the small classification becomes 3 graduated classification and

layers. The setting of the display part pertaining to the menu region can be modified according. Also, while the menu is displayed on the menu - screen, any menu can be moved.

/3

The action is explained next according to the flowchart in figure 3.

step 301, the menu - A1, A2,...An defined as First, in large classification menu are displayed in a certain location screen 1 (lower right corner). In step 302, the menu - A1 , displayed large classification menu A1, A2... An are selected and In step 303, the selected menu - A1 is displayed in a inputted. intermediate A11, A12,... different color. The menu corresponding to the selected menu A1 is at step 304, this displayed in a certain location on the screen (the middle right In step 305, any of the menu can be selected and inputted, the displayed menu - All, Al2.. Aln. In step 306, the selected menu is displayed in a different color. In step 307, the small menu - A111, A112, classification . . . A11n corresponding selected menu - All in step 307 is displayed in a certain location on screen 1 (upper right side).

In step 308, the small classification menu A is selected. In step 309, the menu - All1 is displayed in a different color. In step 310, the menu corresponding to this is processed.

Also, when the process of the small classification menu - All1 is completed, the process can be returned to any of the steps 302, 305 and 308. The large classification, the intermediate classification classification and the small menu displayed screen 1 can be selected freely again. Also, at step 304, when intermediate classification menu - All, Al2.,,Aln are displayed on classification menu A1, the the large A2,.. An selected by returning to step 302. The small classification menu

A111, A112,.. A11n is displayed on screen 1 at step 307, process can be returned to any of the steps 302 or 305. The the intermediate classification and of the large classification is possible.

Furthermore, in the above implementation example, for the menu on the graphic display, other menu can be opened. Also, the file the graduated layer structure of 3 limited is not to small, intermediate and large file directory layers, the several graduated layers can be used.

#### (Effect of invention)

According to the invention as explained above, a system where the file in graduated layer form is displayed on the screen of of several upper position computer, this file consists position classification and several lower displaying the large related files displaying the fine classification, these are file display above upper position files. This is characterized in that several upper position files are displayed screen. One upper position file is the aforementioned Several of the lower files. position from several upper position the file related to one of upper position file that are with the aforementioned upper position file in а row file is computer. One lower position screen of the among several of the lower position files. In addition, the lower classification is displayed file of the fine the position aforementioned screen. The file from all the graduated layer displayed in a row on the aforementioned screen. This makes a more efficient file operation.

#### 4. Brief explanation of the diagrams

Figure 1 is the diagram showing the screen of the graphic display of the invention. Figure 2 shows the file structure of the graduated layers. Figure 3 is the flowchart explaining the action

of the invention. Figures 4 and 5 show the state of the screen for the conventional file display.

1 - screen, 5,6,7 - display part, A1-An - upper position file, A11 - An1 - lower position file, A111 - A11n - lower position file

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#### Figure 1

The file display of the invention

A1 - Aln: upper position

file

All - Anl: lower position

file

A111 - A11n: lower

position file

1 - screen

5,6,7 - display parts

#### Figure 2

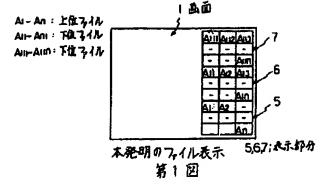
Large classification, A1, A2....An

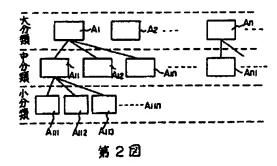
Intermediate classification,

A11, A12, A1n,....An1

Small classification, A111,

A112, A113,...A11n





#### Figure 3

START

Step 301 - large classification menu display

Step 302 - large classification

menu selection

Step 304 - intermediate menu

display

Step 305 - intermediate menu

selection

Step 306 - selection menu color

change display

Step 307 - small classification

menu display

Step 308 - small classification

menu selection

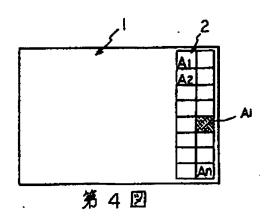
Step 309 - selection menu color

change display

Step 310 - menu - corresponding process

END

Figure 4



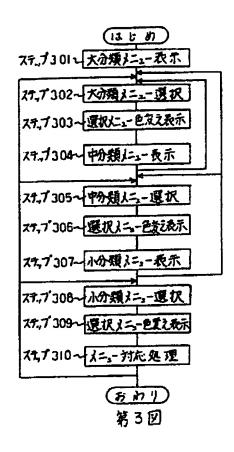


Figure 5

